

Update on 2020 Census Data Products

National Advisory Committee Spring 2021 Virtual Meeting

**Jason Devine
Population Division**

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Background

Schedule for releasing products beyond Redistricting has not been finalized

- 2020 Census Data Products schedule dependent on timing for releasing Apportionment and Redistricting data (P.L. 94-171)
- Review of 2020 Census production files and changes to post-processing impacted schedule
- Apportionment results were released on April 26, 2021
- Redistricting data products scheduled for August – September release
- The schedule for products beyond the redistricting data will include time for stakeholder feedback on the disclosure avoidance system that will be used for those products

2020 Census Data Products

Data products following Apportionment are grouped based on disclosure avoidance approach they utilize. All approaches will use disclosure avoidance methods based on differential privacy.

- Redistricting File (P.L. 94-171)
- Demographic Profile
- Demographic and Housing Characteristics File (DHC) Product

2020 Census Data Products

Data products following Apportionment are grouped based on disclosure avoidance approach they utilize. All approaches will use disclosure avoidance methods based on differential privacy.

- Detailed Demographic and Housing Characteristics (D-DHC) Product
 - Statistics for detailed race and ethnicity groups, and American Indian and Alaska Native tribe and village populations
 - Complex person/household join tables not included in DHC

2020 Census Data Products

Data products following Apportionment are grouped based on disclosure avoidance approach they utilize. All approaches will use disclosure avoidance methods based on differential privacy.

- Public Use Microdata Sample (PUMS) File
- Congressional District Demographic and Housing Characteristics Product
- Special Tabulations

Redistricting File (P.L. 94-171)

Public Law 94-171 directs the Census Bureau to provide data to the governors and legislative leadership in each of the 50 states for redistricting purposes. This product will be the first file released that will include demographic and housing characteristics about detailed geographic areas

- **Subjects will include:**

- Voting age
- Race
- Hispanic or Latino origin
- Occupancy status
- Group quarters population by major GQ types

- **Geography:** Census Block

Demographic Profile

This product will provide critical demographic and housing characteristics about local communities from selected DHC tables in a streamlined, easy to use format as soon after the release of the Redistricting product as possible

- **Subjects will include:**

- 5-year age groups
- Sex
- Race
- Hispanic or Latino origin
- Household type
- Relationship to householder
- Group quarters population
- Housing occupancy
- Housing tenure

- **Geography:** Place/Minor Civil Division

Demographic and Housing Characteristics Product (DHC)

The DHC will include many of the demographic and housing tables previously included in Summary File 1

- **Subjects will include:**

- Age
- Sex
- Race
- Hispanic or Latino origin
- Household type
- Family type
- Relationship to householder
- Some subjects provided for major OMB race/ethnicity groups
- Group quarters population
- Housing occupancy
- Housing tenure

- **Geography:** Various; with many subjects available at the Census Block level
- The DHC will not include tables that provide counts by detailed race, Hispanic origin, tribes, and population counts by household/family types. These tables will be included in D-DHC

2020 Data Products – Previous Presentations

Extensive presentation made during Fall 2019 NAC meeting

[Link to presentation materials on Census website](#)

[Link to presentation video on Census YouTube channel](#)

[Link to Disclosure Avoidance Census Website](#)

Key Developments

- Substantial progress on development of disclosure avoidance system to support 2020 Census Redistricting product
- Resumed the Differential Privacy (DP) Working Group - and extended its duration until December 2022 (it was set to expire in July). A special meeting will be held this spring to obtain NAC recommendations on DP
- Multiple Privacy-Protected Microdata Files (PPMFs) and Detailed Summary Metrics for the Redistricting product have been released for public review and comment, most recently last week
- Privacy-Loss Budget for these PPMFs was increased and reallocated to improve accuracy for a specific set of redistricting and Voting Rights Act metrics
- Census Bureau requests feedback based on the new PPMFs by May 28, 2021 to help inform the Data Stewardship Executive Policy Committee (DSEP) decision on final Privacy-Loss Budget in early June

Key Developments (cont.)

- Development of disclosure avoidance system split into two stages:
 - Redistricting product
 - Demographic Profile; Demographic and Housing Characteristics File (DHC)
- Additional Race by Hispanic origin iterations included for DHC tables
- Developing timeline and plans for work on DHC disclosure avoidance system
- Determined name and scope of the 2020 Detailed-DHC
- Progress being made on disclosure avoidance system to support Detailed-DHC products
- Outreach with stakeholders and advisory groups has continued and helped inform decisions along the way

Planning for Disclosure Avoidance Work on Demographic and Housing Characteristics File (DHC)

- Population Division and Social, Economic, and Housing Statistics Division refining accuracy targets for DHC disclosure avoidance system
- Privacy-Protected Microdata Files (PPMFs) using 2010 Census data will be released to enable public to assess accuracy and privacy protection of DHC tables
- Need to determine timeline for DHC PPMF review and how many PPMFs to be released
- DHC PPMFs release and feedback loop will follow a similar cadence to our engagements with PPMFs for Redistricting product
- Decisions about number of PPMFs will be informed by results of public assessments of initial PPMFs

Questions for NAC

- Do you have suggestions on developing accuracy targets for the Demographic and Housing Characteristics tables?
- Do you have suggestions for the amount of time needed for the public to provide feedback on DHC PPMFs? Are there external researchers you would recommend Census reach out to for feedback?
- What questions or concerns do you have about the DHC or other 2020 Census data products?